

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v320)**

1. Expand the following expression into standard form.

$$(9x - 2)^2$$

2. Expand the following expression into standard form.

$$(5x + 3)(7x - 6)$$

3. Expand the following expression into standard form.

$$(5x - 2)(5x + 2)$$

4. Solve the equation.

$$(3x + 2)(4x + 7) = 0$$

5. Factor the expression.

$$49x^2 - 81$$

6. Solve the equation with factoring by grouping.

$$18x^2 + 15x + 24x + 20 = 0$$

7. Factor the expression.

$$x^2 + 3x - 28$$

8. Solve the equation.

$$7x^2 + 19x - 8 = 4x^2 + 5x - 3$$